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(54) SELECTIVE ACYLATION OF STERYL GLYCOSIDE

(57)Abstract:

PURPOSE: To simplify the purification process for the reaction mixture by acylating only a specific primary hydroxy group in the saccharide moiety of a steryl glucoside selectively.

CONSTITUTION: A steryl glucoside of a general formula: HO-CH₂-Gly-O-St (Gly is a residue of glucose, galactose, fructose or mannose; St is a residue of sitosterol, campesterol, stigmasterol, avenasterol, isofucosterol, brassicasterol or cholesterol) and a fatty acid are allowed to react with each other in the presence of lipase in an aqueous solution containing 0.1-10wt.% of a lower alcohol or in chloroform solution to give a steryl acylated glycoside of the general formula: R-COO-CH₂-Gly-O-St (Gly and St are same as those stated above, R is a fatty acid residue) specifically.

